

ABSTRACT

A power transfer apparatus 1 of a four-wheel drive vehicle includes, a clutch, an inversion detector, and
5 controller. The clutch generate an engagement force that effects a driving force output from an engine to wheels of the vehicle via a transmission. The transmission includes the inversion detector 23, 27 for detecting inversion or non-inversion of a gear-shifting direction
10 of the transmission 13. The controller 23 subjects the electromagnet to energization control such that torque to be transmitted by the clutch is decreased to a target value in accordance with an inversion signal pertaining to said gear-shifting direction detected by said
15 inversion detector 23, 27.